IOWA STEM TEACHER
EXTERNSHIPS
CONNECTING CLASS TO CAREER

GREATNESS
STEMS
FROM IOWANS

Name   Jeff Sands
Teaching content area: Math
School: Mediapolis Comm
Externship Host: Hawkeye Pedershaab

Part I: Overview of Business

Hawkeye Pedershaab, Mediapolis, IA, in business over 65 years, manufactures pipe forming machines for precast concrete, international company

Part II: Job Specifics

•Developing a system that finds the 18-36 month average of storeroom supplies to determine the minimum/maximum supplies required for each part
•I work in the Purchasing division, procurement of inventory and supplies, obtaining quotes, entering and sending purchase orders, verifying invoices

Part III: Introduce the Problem

Vendor manages supply inventory and often overfills supplies causing too many parts on hand, resulting in loss of revenue as inventory is unable to move out fast enough??

Part IV: Background

•Finding averages, percentages, absolute values (minimum/maximum).
•The amounts of each part were being sold monthly on average and how much inventory was actually stocked monthly.

Part V: Business Solution

Figuring out the amount of inventory sold over a 3 year period and taking the monthly average to get a minimum/ maximum established from a certain percentage.

Part VI: Student Solutions

Most students would have a minimum less than the average, they might think they need an average on hand at all times or the highest amount that was sold all the time.